

PENDING CLAIMS AS AMENDED

Please amend the claims as follows:

1. (Currently Amended) A channel structure capable of supporting data transmission on a reverse link of a wireless communication system, comprising:
  - a reverse fundamental channel configurable to transmit data and signaling on the reverse link;
  - a reverse supplemental channel assignable and configurable to ~~[[transmitted]]~~ transmit packet data on the reverse link;
  - a reverse control channel configurable to transmit signaling on the reverse link; and
  - a forward power control channel configurable to transmit first and second power control streams for the reverse link for a particular remote terminal, wherein
    - the first power control stream is used to control the transmit power of the reverse supplemental channel in combination with at least one other reverse link channel, and
    - the second power control stream is used to control a transmit characteristic of the reverse supplemental channel.
2. (Original) The channel structure of claim 1, wherein the second power control stream is used to control the transmit power of the reverse supplemental channel relative to that of a designated reverse link channel.
3. (Original) The channel structure of claim 1, wherein the second power control stream is used to control the data rate of the reverse supplemental channel.
4. (Original) The channel structure of claim 1, further comprising:
  - a forward acknowledgment channel configurable to transmit, on the forward link, signaling indicative of received status of the packet data transmission on the reverse link.

5. (Original) The channel structure of claim 4, wherein the forward acknowledgment channel is configurable to transmit an acknowledgment or a negative acknowledgment for each transmitted data frame on the reverse supplemental channel.

6. (Original) The channel structure of claim 5, wherein the acknowledgment or negative acknowledgment for each transmitted data frame is transmitted a plurality of times on the forward acknowledgment channel.

7. (Original) The channel structure of claim 1, wherein the reverse control channel is configurable to transmit signaling used to assign and de-assign the reverse supplemental channel.

8. (Original) The channel structure of claim 1, further comprising:  
a reverse rate indicator channel configurable to transmit on the reverse link information related to a packet data transmission on the reverse link.

9. (Original) A channel structure capable of supporting data transmission on a reverse link of a wireless communication system, comprising:

a reverse fundamental channel configurable to transmit data and signaling on the reverse link;

a reverse supplemental channel assignable and configurable to transmitted packet data on the reverse link;

a reverse control channel configurable to transmit signaling on the reverse link; and

a forward power control channel configurable to transmit first and second power control streams for the reverse link for a particular remote terminal, wherein

the first power control stream is used to control the transmit power of the reverse supplemental channel in combination with at least one other reverse link channel, and

the second power control stream is configured to control a transmit characteristic of a group of remote terminals.

10. (Original) The channel structure of claim 9, wherein the second power control stream is used to similarly control the transmit power or data rate of the group of remote terminals.

11. (Original) The channel structure of claim 9, wherein the second power control stream is used to enable and disable transmissions on reverse supplemental channels assigned to the group of remote terminals.

Claims 12 – 21 (Cancelled)

22. (Original) A method for controlling transmit power of a supplemental channel in a reverse link of a wireless communication system, comprising:

receiving a first power control stream for controlling the transmit power of the supplemental channel in combination with at least one other reverse link channel;

receiving a second power control stream for controlling a transmit characteristic of the supplemental channel; and

adjusting the transmit power and characteristic of the supplemental channel based on the first and second power control streams.

23. (Original) The method of claim 22, wherein the second power control stream controls the transmit power of the supplemental channel relative to that of a designated reverse link channel.

24. (Original) The method of claim 22, wherein the second power control stream controls a data rate of the supplemental channel.

25. (Original) The method of claim 22, wherein the second power control stream enables and disables transmission on the supplemental channel.

26. (Currently Amended) The method of claim 22, wherein the transmit power of the supplemental channel is adjusted by a larger step size, in response to the second power control stream, than the step size for the first power control stream.

27. (Original) The method of claim 22, wherein the second power control stream is assigned to a plurality of remote terminals.

28. (Currently Amended) The method of claim ~~[[28]]~~ 27, wherein supplemental channels for the plurality of remote terminals are controlled in similar manner by the second power control stream.

29. (Original) A remote terminal in a wireless communication system, comprising:  
a transmit data processor configurable to process and transmit  
    data and signaling on a reverse fundamental channel,  
    packet data on an assigned reverse supplemental channel,  
    signaling on a reverse control channel, and  
    information related to a packet data transmission on a reverse indicator channel;  
a receive data processor configurable to receive a plurality of power control streams on a forward power control channel; and  
a controller operatively coupled to the transmit and receive data processors and configured to control one or more transmit characteristics of the reverse supplemental channel based on the plurality of power control streams.

30. (Original) The remote terminal of claim 29, wherein the receive data processor is further configurable to receive, on a forward acknowledgment channel, signaling indicative of received status of a packet data transmission on the reverse supplemental channel.